

Abstract

Hydraulic transformer

A hydraulic transformer has a housing and an expeller part in which a plurality of expellers which bound a number of expeller spaces with variable volumes are guided, a cam part on which the expellers are supported, and a valving surface which has three kidney-shaped control slots, one of which is connected to a supply port, one to a working port, and one to a reservoir tank port. This avoids complex setting of the transmission ratio. The the valving surface can be driven in rotation by means of a drive. In the two components of expeller part and cam element, one component is essentially arranged fixedly with respect to the housing and the other component can move freely in terms of two rotational or translatory degrees of freedom within a limited range.